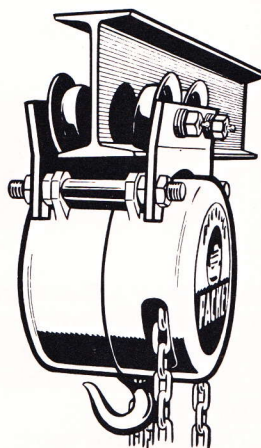
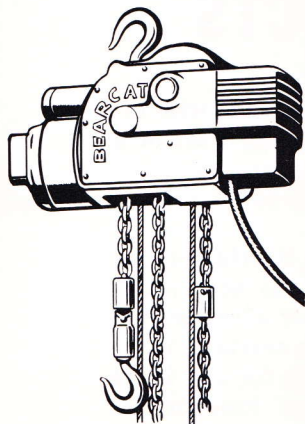
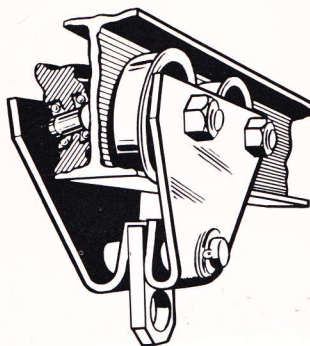
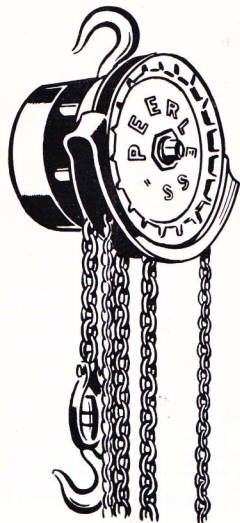


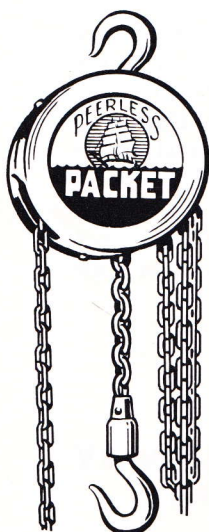
CATALOG R

December, 1963



HARRINGTON PEERLESS HOIST PRODUCTS

THE HARRINGTON COMPANY, Plymouth Meeting, Pa.





THE COMPANY AND ITS PRODUCTS

The Harrington Company was founded in Philadelphia in 1867 to manufacture lathes, drilling machines, planers and other machine tools. It first entered the hoist business in 1876, when it acquired a patent for a screw hoist with worm and worm gear to hold the load in suspension. This hoist, made in capacities from $\frac{1}{4}$ to 10 tons, required the least physical effort to operate of all hoisting devices then in use. Refinement of design and better tooling for interchangeability of parts resulted in improved models—some of these hoists, made before the turn of the century, are still in operation.

From its inception, the basic principles of the company have been to design and build products embodying the best in technological advances, high quality materials, and craftsmanlike manufacture. This policy has consistently brought forth improvements and new developments of an important nature. It produced spur geared hoists to increase mechanical efficiency by holding the load with a disc brake instead of by worm gearing; developed a silent rotary ratchet to hold the load in suspension; eliminated cast gray iron parts, replacing them with all-steel. It led to the design of the Peerless Packet. It led to electric hoists in 1895—old drawings and photo-

graphs show a Harrington screw hoist with direct connection from worm to rotor shaft of a d-c motor, and having a starting panel as large as a barrel head. This was the forerunner of today's Bearcat.

The inventive spirit here at Harrington has indeed been a restless one. It has been manifested in the steady appearance of allied devices, such as trolleys and cranes for overhead materials handling and trolley hoists for use where headroom is limited. It showed itself in the design of lever pullers which can be used as hoists for vertical as well as horizontal movement. This innovation was the forerunner of today's Peerless Pal and CumAlong Lever Pullers with automatic screw type brakes for holding and for smooth release of a suspended load.

The Harrington facilities of the present are housed in a fine modern one-story plant in the historic community of Plymouth Meeting, Pa. It is situated on the Delaware River Extension of the Pennsylvania Turnpike, just west of the Norristown interchange and almost exactly 14 miles from downtown Philadelphia. Of particular interest is the plant area where all geared hoists are fully tested, under actual operating conditions, after final assembly.

**THE HARRINGTON COMPANY
PLYMOUTH MEETING, PA.**

PEERLESS PACKET HOISTS

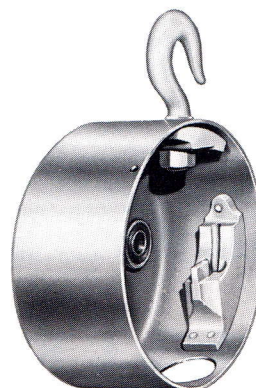
ALL-STEEL OR ALUMINUM CONSTRUCTION



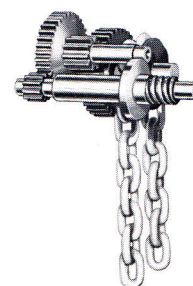
Peerless Packet Hoists are strong, compact, highly efficient, easy to operate, and fast. Enclosed construction provides maximum protection against rough handling. The automatic friction-holding brake is positive in action and balanced for easy lowering of the load. All shafts rotate on shielded, prelubricated ball bearings, require no maintenance. The outer end of the hand wheel shaft is supported by a ball bearing to reduce strain. Drop forged heat-treated steel hooks, precision cut heat-treated alloy steel gears, and electrically welded oval link heat-treated load chain are other important features.

All-Steel Construction. Features heavy pressed steel frames, covers and hand chain sheaves. Also electrically welded steel hand chain. It is ideal for fixed installations and less costly than aluminum.

Aluminum Construction. Similar in design and load-carrying mechanism to the all-steel models. Frames, covers and hand chain sheaves are of high-tensile aluminum alloy. Hand chain is of non-sparking aluminum alloy. The use of aluminum reduces weight without sacrifice of any other quality, thus providing the portability that many users want.



Housings are of rugged pressed steel or high-tensile aluminum alloy.



Alloy steel gears are heat treated, have precision-cut teeth.



Hand chain sheave has deep pockets—chain cannot disengage. Hand chain, with large links, is easy to pull.

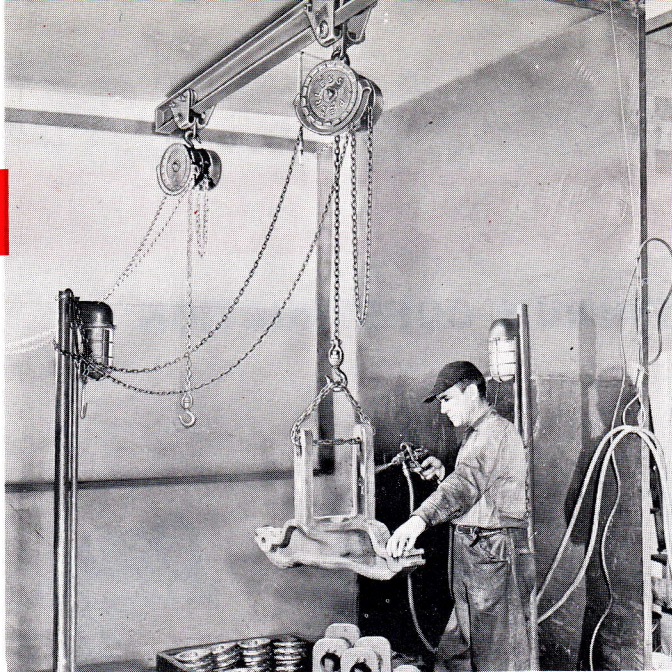


Chain guides are integral part of cover—hand wheel is fully protected.

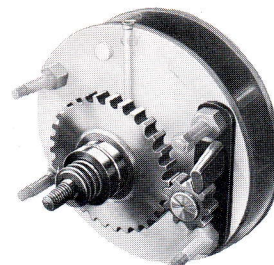
*For more information,
ask for Engineering Data Sheets*

Cap. in Net Tons	Reg. Lift in Ft.	Shortest Distance Between Hooks	Pull for Full Load	Weights in Pounds					
				ALL STEEL "PACKET"			ALUMINUM "PACKET"		
				Net Reg. Lift	Gross Weight (lb.)	Per Ft. Extra Lift	Net Reg. Lift	Gross Weight (lb.)	Per Ft. Extra Lift
1/2	8	13 3/4	42	50	54	2.0	29 3/4	33	1.2
1	8	14 1/4	56	53	57	2.1	32	36	1.3
2†	9	22 3/4	60	73	77	3.0	53	57	2.3

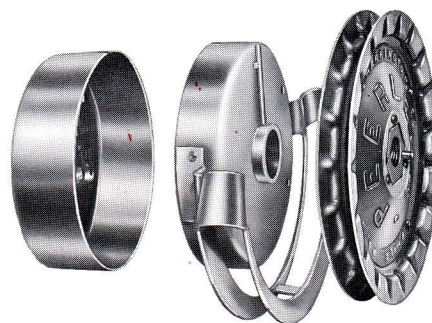
†2-ton model has double load chain and bottom idler.



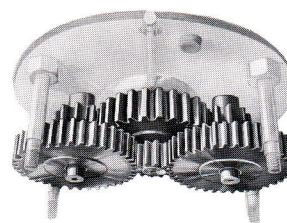
CHAIN HOISTS



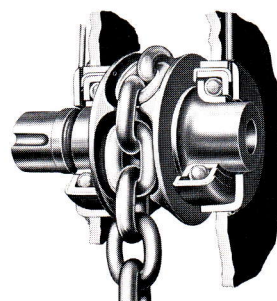
Silent steel lock safely sustains any load, permits accurate placing and holding without slip.



Steel covers eliminate handling damage and breakage, protect internal parts.



Heat-treated alloy steel gears have precision-cut teeth.



Five-pocket load wheel minimizes chain wear.

PEERLESS MODEL C HOISTS

Peerless Model C Spur Geared Hoists are built for hard use. They are designed and built to withstand neglect and rough handling; to give long troublefree service; to require minimum maintenance and repair; to provide maximum safety for operating personnel.

Their many advantages include the following:

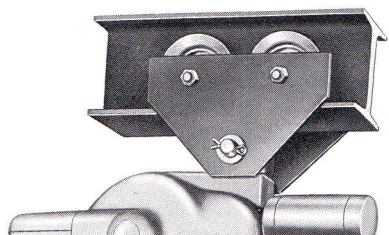
- Frames of heavy steel plate
- Load carried entirely on steel
- Load wheel rotates on ball bearings
- Unbreakable steel hand wheel
- Friction mechanism and gears entirely enclosed
- Balanced double reduction gear train
- High-carbon steel load chain, heat treated and electrically welded for strength, safety and wearing qualities

Cap. Gross (tons)	Regu- lar Lift (ft.)	Shortest Distance Between Hooks (in.)	Feet of Chain Handled to Lift Load 1 Foot	Pull on Hand Chain to Lift Full Load (lb.)	Weight (lb.) Reg. Lift		Strands of Load Chain
					Net	Gross	
1/4	8	13 1/2	14.0	45	52	56	1
1/2	8	13 1/2	20.3	61	53	57	1
1	8	17	31.5	78	83	87	1
1 1/2	8	19	34.5	108	115	132	1
2	9	21	40.5	123	157	174	1
3S	10	24 1/2	59.0	127	235	272	1
3D	10	27 1/4	69.0	110	170	210	2
4	10	34 1/4	81.0	128	244	275	2
5	12	38 1/2	118.0	112	355	416	2
6	12	40 1/2	118.0	134	357	418	2
8	12	46	177.0	125	436	563	3
10	12	49 1/4	154.5	181	510	637	3
15	12	59	†103.0	†208	960	1300	4
20	12	61 1/2	†154.5	†186	1225	1600	6
15 to 60	Models D & E						

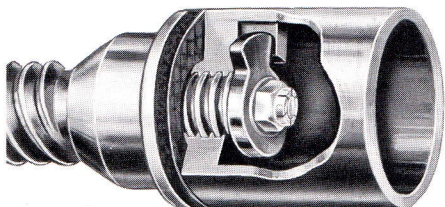
†On each of 2 hand chains.

For more information,
ask for Engineering Data Sheets

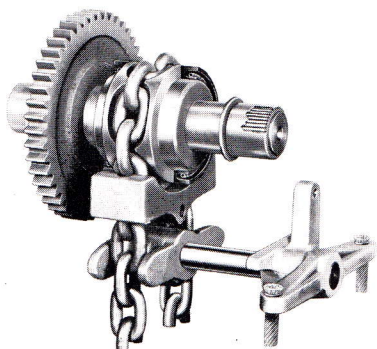
ELECTRIC HOISTS



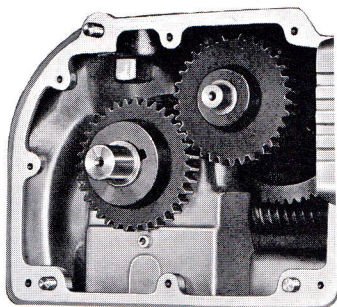
Trolley suspension permits movement along I-beam or monorail—parallel or right angle.



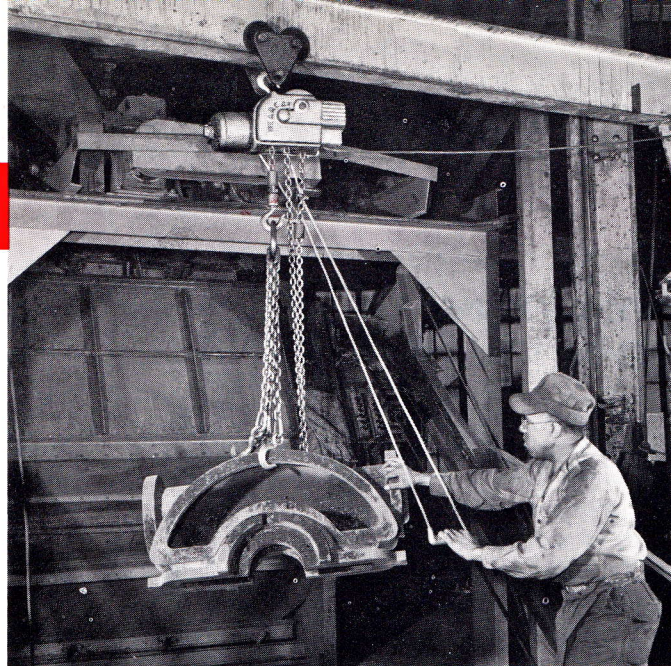
Two separate brakes—a primary or holding brake and a secondary or snubbing brake—provide maximum safety and accurate positioning of the load.



Specially designed chain guide prevents twisting or disengagement of the links from load wheel pockets. Limit lever operates in both directions of hook travel.



Spur gears are interchangeable. Various hook speeds and load capacities can be obtained.



BEARCAT ELECTRIC HOISTS

Bearcat Electric Hoists are easily carried from place to place, are available with top hook, vertical stud, or trolley suspension. Sturdy construction, fast and economical operation, high safety factor, and long troublefree service life assure lower materials-handling costs in almost any industrial application.

Main housing and covers are made of high-tensile aluminum alloy. Gearing, bearings and brake mechanism are fully enclosed and operate in a constant bath of lubricant. High-efficiency multiple thread initial worm drive and secondary spur gears are used for speed reduction. Conventional oval link, heat-treated chain carries the load, is completely flexible.

Hook Speed in feet per minute	Lifting Capacity in Pounds and Motor Size					
	RA ¼ HP	RC ½ HP	RD ¾ HP	RE 1 HP	RF† ¾ HP	RG† 1 HP
6	—	—	—	—	4000	—
8½	—	—	—	—	3000	4000
12	700	—	2000	—	—	2800
17	500	1000	1500	2000	—	—
24	350	700	1050	1400	—	—
34	250	500	750	1000	—	—
43*	200*	400*	600*	—	—	—
50*	170*	340*	500*	—	—	—
Net wt. (lb.)	79	82	93	97	111	115

*Not suitable for all applications—consult factory.

†Models RF and RG have 2 strands of chain and bottom idler.

*For more information,
ask for Engineering Data Sheets*

THE HARRINGTON COMPANY
PLYMOUTH MEETING, PA.

LEVER PULLERS

PEERLESS PAL LEVER PULLERS

Lightweight, all-around work tools. Lift, lower and drag smoothly without jerks to permit precise positioning of load. Easy to use, reliable and safe.

Housings are aluminum alloy. Drive is direct without gears. True friction brake — holds load at any position when pull stops. Operating handle, designed to bend before puller is dangerously overloaded, has reversible ratchet head, can be operated in any position, makes a full circle or an arc as small as 15 degrees. Chain is oval link, heat treated, and flexible in all directions.

Normally rated $\frac{1}{4}$, $\frac{1}{2}$ and 1 ton, the capacities of Peerless Pal Lever Pullers can easily be doubled by using a snatch block. This can be put on or taken off with the fingers.



CUMALONG LEVER PULLERS

Extremely useful tools for construction work, loading trucks, wire stretching, hoisting in cramped quarters, or wherever heavy loads have to be raised or pulled. Has a 3-to-1 gear reduction. Operates perfectly in any position from horizontal to vertical. Lifts full load with little effort, holds the load at any point, lowers smoothly and easily. Operating handle is designed to bend before puller is dangerously overloaded. Chain is high-carbon electrically welded steel, heat treated for strength and long life. Also flexible in all directions and will not kink. Mechanism fully enclosed. Disc type holding brake can be made freewheeling for rapid adjustment of hook position. Available in two sizes: $\frac{3}{4}$ and $1\frac{1}{2}$ ton capacity.



Capacity (net ton)		Standard Hook Travel (ft.)†		Min. Hook to Hook (in.)		Net Weight (lb.)	Radius of Handle (in.)
Single Strand	Double Strand	Single Strand	Double Strand	Single Strand	Double Strand		
$\frac{1}{4}$	$\frac{1}{2}$	5	$2\frac{1}{4}$	$9\frac{1}{4}$	$12\frac{3}{8}$	$5\frac{3}{4}$	$8\frac{1}{2}$
$\frac{1}{2}$	1	5	$2\frac{1}{4}$	$10\frac{3}{4}$	$13\frac{3}{4}$	$11\frac{3}{4}$	$16\frac{1}{4}$
1	2	5	2	$11\frac{1}{2}$	$15\frac{3}{4}$	$16\frac{1}{4}$	24

†Longer chain can be ordered for any length of hook travel.

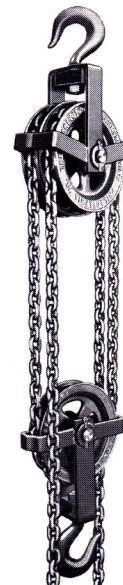
Cap. (gross ton)	Regular Pull (ft.)	Net Weight (lb.)	Minimum Distance Between Hooks (in.)	Handle Radius (in.)	Effort for Full Load Movement (lb.)	Strands of Load Chain
$\frac{3}{4}$	5	20	$8\frac{3}{4}$	$13\frac{1}{2}$	78	1
$1\frac{1}{2}$	5	32	$16\frac{3}{4}$	$13\frac{1}{2}$	80	2

HARRINGTON DIFFERENTIAL HOISTS

Cap. Tons	Regular Lift (ft.)	Least Distance Between Hooks (in.)	Chain Handled to Lift Load 1 Foot (ft.)	Pull to Lift Full Load (lb.)	Weight (Reg. Lift) (lb.)	
					Net	Gross
$\frac{1}{4}$	6	17	18	72	25	26
$\frac{1}{2}$	7	21	24	122	34	35
1	8	26	30	216	54	55
$1\frac{1}{2}$	$8\frac{1}{2}$	32	36	246	91	92

For more information,
ask for Engineering Data Sheets

These hoists have rolled steel frames for strength and safety. Consisting of only nine parts, they are one of the simplest types of hoist made. They are easy to carry from one job to another and will withstand weathering to an exceptional degree. They are designed for conditions where a safe and portable hoist is required for occasional use and loads are relatively light.



TROLLEY HOISTS

PEERLESS PACKET



½, 1 and 2 tons

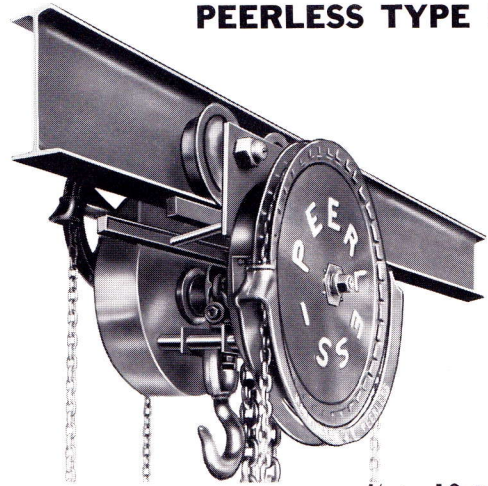
These trolley hoists are a combination of a Peerless Packet Hoist and an adjustable trolley which fits a wide range of I-beams without dismantling. They incorporate all the features of the hook suspension type hoist with addition of a specially designed trolley that reduces headroom to a minimum.

Internal mechanism is protected from damage by enclosed construction. They are adjustable to a wide range of standard I-beams, can be modified to run on other beams, WF sections, or special monorails. Large-diameter hardened steel wheels, with double rows of pressure lubricated bearings, roll freely even under maximum load. They cost little more than an ordinary hoist and trolley, yet save valuable headroom.

*For more information,
ask for Engineering Data Sheets*

THE HARRINGTON COMPANY
PLYMOUTH MEETING, PA.

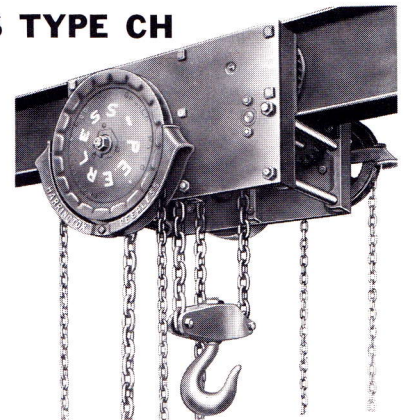
PEERLESS TYPE H



½ to 10 tons

Recommended for applications where moderately close minimum distance from hook to beam is required. They are of all-steel construction and have the same internal mechanism and features as the Peerless Model C Hoist described on page 4. The trolley element has heavy side frames of rolled steel plate carrying four chilled tread trolley wheels, each equipped with double ball bearings. Wheels are designed to fit standard I-beams or flat flange beams. Available in either push type or geared traverse.

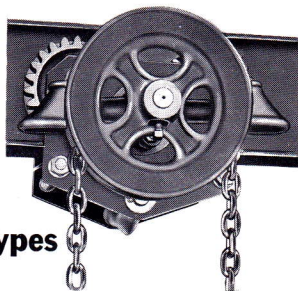
PEERLESS TYPE CH



2 to 12 tons

Type CH Trolley Hoists satisfy the most exacting demands for extremely close headroom conditions. Each side of the unit is a box section of flat rolled steel plates with ample spacing blocks and tie bolts. The hoist element is a Peerless All-Steel Hoist with alloy steel heat-treated spur gearing, silent friction mechanism in a dirtproof cover, and outer support bearing for the pinion shaft. The main shaft is carried in both frames on alloy steel ball bearings. Trolley wheels, chilled tread, have two alloy steel ball bearings and are designed to operate on standard I-beams or flat flange beams. Available in either push type or geared traverse.

HARRINGTON I-BEAM TROLLEYS



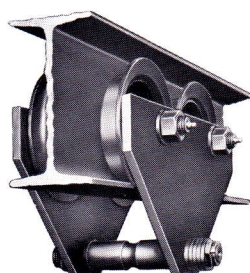
MODEL C

push or geared types

Adaptable to a wide range of beam sizes, styles and shapes. Heavy rolled steel plate side frames. Geared type have two plain and two geared wheels driven by a pinion operated by a hand wheel and pendant chain. Regular wheels have dual ball bearings. Shafts are fitted for pressure lubrication. Wheels with Timken roller bearings are also available.

Cap. (gross ton)	Usual Size of I-Beam	Adjustable for I-Beam Sizes (in.)*	Wheel Tread Diam.	Min. Radius Track Curve (in.)	Net Weight (lb.)	
					Push	Geared
1/2	5"-10.0 lb.	5 to 8	3 3/8	24	35	55
1	6"-12.5 lb.	6 to 10	4 1/4	27	44	72
1 1/2	7"-15.3 lb.	6 to 10	4 3/4	33	68	96
2	8"-18.4 lb.	8 to 12	5 5/8	42	76	105
3	10"-25.4 lb.	10 to 15	6 1/2	48	115	144
4	10"-25.4 lb.	10 to 18	7 3/8	78	124	160
5	12"-31.8 lb.	12 to 20	8 1/8	84	178	215
6	12"-31.8 lb.	12 to 20	8 1/8	84	194	234
8	15"-42.9 lb.	15 to 20	11	—	354	410
10	15"-42.9 lb.	15 to 20	11	—	354	420
15	As Ordered	†	12 1/2	—	720	760
20		†	12 1/2	—	760	800

*Can be made for beams wider than stock range at an extra charge.
†To order only.

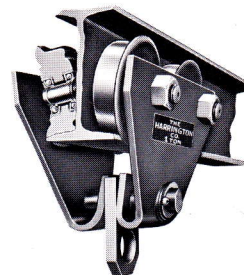


MODEL K

These trolleys are light and strong with close headroom. They are adjustable and designed to run on a wide range of beams. Among their features are hardened wheels with flanges wide enough to permit operation on curves, ball bearings in double row and pressure lubrication.

Cap. (gross ton)	Usual Size of I-Beam	Adjustable for I-Beam Sizes (in.)*	Wheel Tread Diam.	Min. Radius Track Curve (in.)	Net Weight (lb.)
1/2	5"-10.0 lb.	4 to 10	3 1/8	21	15
1	6"-12.5 lb.	5 to 12	4 1/4	24	25
2	8"-18.4 lb.	6 to 18	4 7/8	36	40

*Can be made for beams wider than stock range at an extra charge.

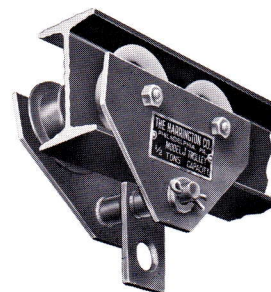


MODEL D

Extremely durable adjustable trolleys with straight tread wheels. They are designed so that all wheels bear uniformly on tapered-flange I-beams. Side frames are cut from heavy plate. Wheels have chilled treads and run on steel ball bearings of the radial and thrust type to permit easy operation on straight or curved track. Lubrication is provided by a grease fitting in the outer end of each shaft. Wheels with Timken roller bearings are also available.

Cap. (gross ton)	Usual Size of I-Beam	Adjustable for I-Beam Sizes (in.)*	Wheel Tread Diam.	Min. Radius Track Curve (in.)	Net Weight (lb.)
1/2	5"-10.0 lb.	5 to 8	3 3/8	21	38
1	6"-12.5 lb.	6 to 10	4 3/8	24	49
1 1/2	7"-15.3 lb.	6 to 10	4 3/8	24	49
2	8"-18.4 lb.	8 to 12	5 7/8	36	90

*Can be made for beams wider than stock range at an extra charge.



MODEL J

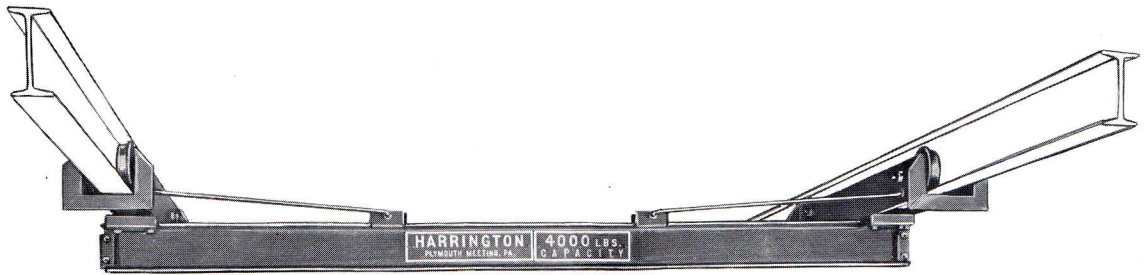
Adjustable and designed to run on tapered flange I-beams. Wheels have single-row ball bearings and flanges that are deep enough to permit safe operation on curves. Frames are cut from steel plate and reinforced by welded hubs to support the link pin. All wheels share the load equally.

Cap. (gross ton)	Usual Size I-Beam	Adjustable for I-Beam Sizes (in.)*	Wheel Tread Diam.	Min. Radius Track Curve (in.)	Net Weight (lb.)
1/4	4"- 7.7 lb.	4 to 8	3 1/8	21	14
1/2	5"-10.0 lb.		3 1/8	21	14
1	6"-12.5 lb.	6 to 10	4 1/8	24	29
1 1/2	7"-15.3 lb.		4 1/8	24	29

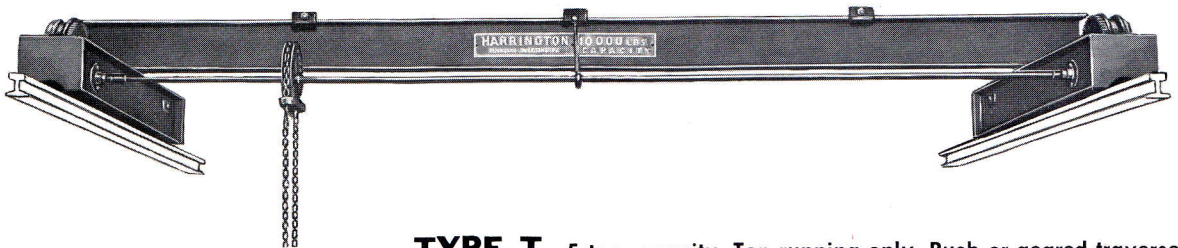
*Can be made for beams wider than stock range at an extra charge.

For more information,
ask for Engineering Data Sheets

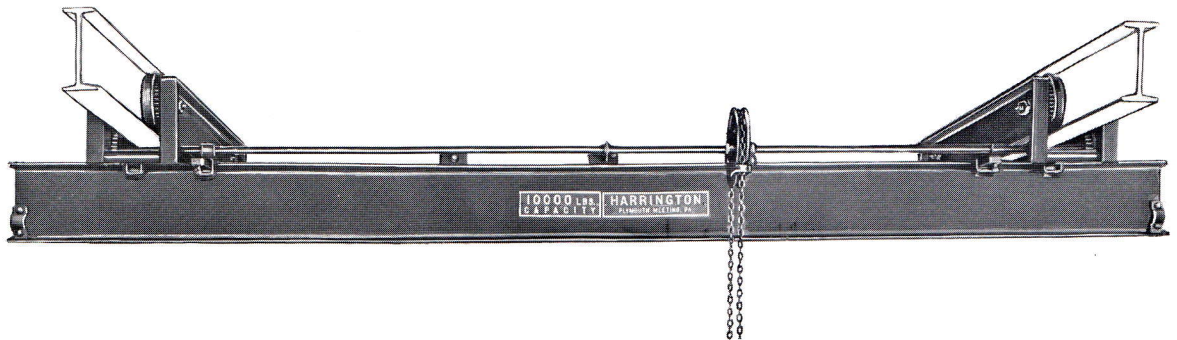
PACKAGED CRANES



TYPE D—2-ton capacity. Top or bottom running. Push type only.



TYPE T—5-ton capacity. Top running only. Push or geared traverse.



TYPE B—5-ton capacity. Bottom running only. Push or geared traverse.



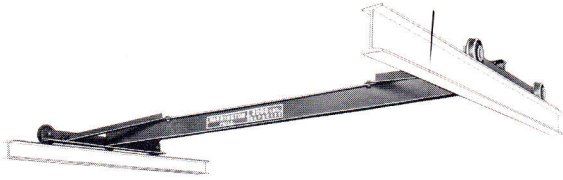
GANTRY CRANE—2-ton capacity

Now you can assemble a top running or underhung crane anywhere, up to 5-ton capacity, without any drilling or welding. Order a Harrington Package Crane, which includes assembled end trucks and all other parts except I-beam and driveshaft for a geared crane. Buy a beam and a shaft from your local steel warehouse to save freight. Assembly is simple, directions are included, and the only tools needed are wrenches.

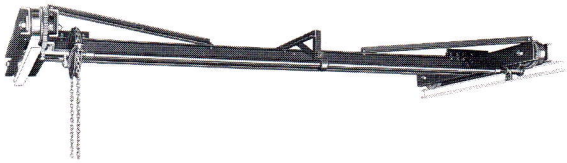
*For more information,
ask for Engineering Data Sheets*

THE HARRINGTON COMPANY
PLYMOUTH MEETING, PA.

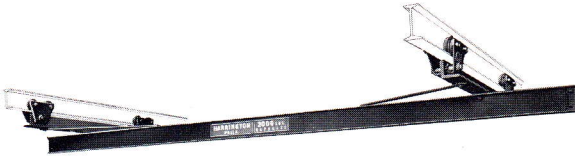
CUSTOM CRANES



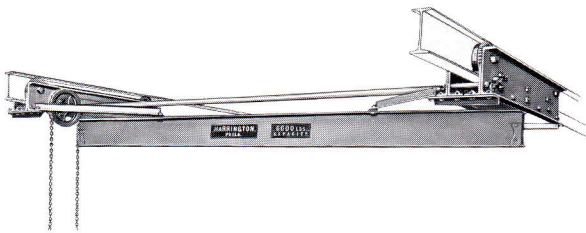
TYPE J—top running



TYPE C—top running



TYPE H—with crane beam below end trucks



TYPE U—bottom running

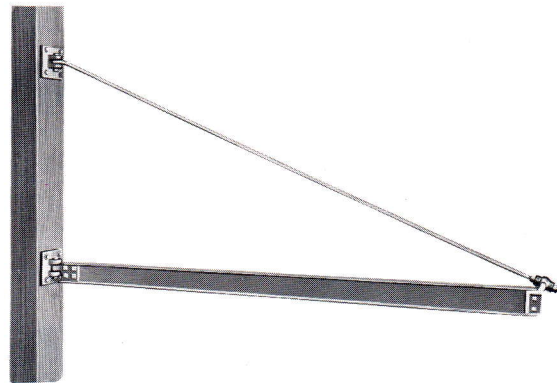
*For more information,
ask for Engineering Data Sheets*

TRAVELING CRANES

Custom cranes can be produced to fit specific requirements. Either top running or underhung, push type or geared, can be built and equipped with various combinations of lifting equipment.

JIB CRANES

Jib cranes are ideal for lifting within a relatively small fixed area. Wall type jib cranes are available in capacities from $\frac{1}{4}$ through 2 tons. Mast type jib cranes can be supplied in capacities from $\frac{1}{4}$ through 1 ton.



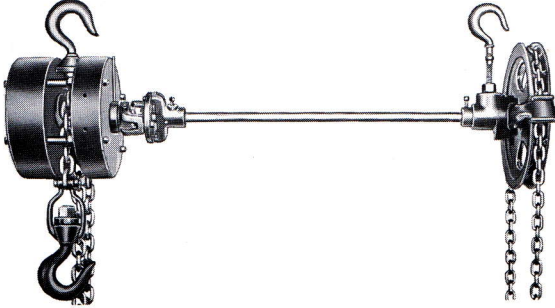
WALL TYPE



MAST TYPE

SPECIALTIES

PEERLESS HOISTS WITH EXTENDED HAND WHEELS



The hand wheel on Peerless Hoists can be extended to permit operation from a position away from the center of load suspension. Units can be furnished with top hooks or studs for suspension or they can be hung from or combined with trolleys for use on overhead track. Capacities range from $\frac{1}{4}$ to 10 tons.

PEERLESS HOISTS FOR MULTIPLE HOOK OPERATION



Two or more Peerless Hoists may be connected so that a load can be raised by two or more hooks. All hoists are controlled by a single hand wheel and can be suspended by top hook or from plain or geared trolleys. When trolleys are geared, all move simultaneously. Capacities range from $\frac{1}{2}$ to 6 tons total load.

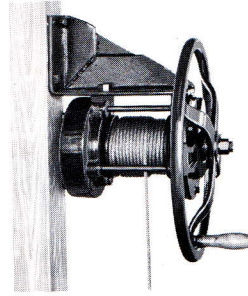
SPECIAL HOISTS

All products shown in this catalog are standard. Special hoists, trolleys and cranes can be developed to suit most materials handling requirements.

Send information concerning your requirements

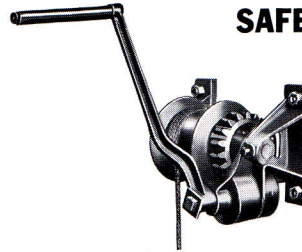
THE HARRINGTON COMPANY
PLYMOUTH MEETING, PA.

PEERLESS WIRE ROPE WINCHES



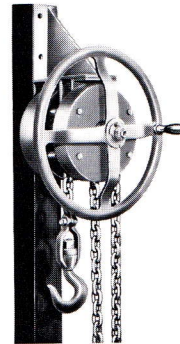
Constructed with regular Peerless Hoist gearing and friction brake. Flywheel and handle are standard equipment, but hand chain, sheave and chain guide can be supplied. Available in capacities from $\frac{1}{2}$ through 2 tons.

SAFETY WALL WINCHES



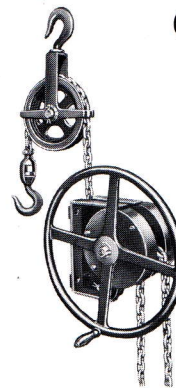
Worm geared to hold load in any position. Smooth drum has deep flanges and provision for fastening rope end. Capacities from $\frac{1}{4}$ through $1\frac{1}{2}$ tons.

DIRECT-TYPE CHAIN WINCHES



Consist of a Peerless Hoist with rigid suspension by angles instead of by top hooks. Supplied with flywheel and handle or pendant chain. Can be supplied with bracket for mounting from the back or side or on an overhead beam. Available in capacities from $\frac{1}{4}$ through 3 tons.

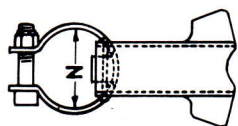
OVERHEAD LIFT TYPE CHAIN WINCHES



Permit pulling downward, in from rear, or upward from an angle. Overhead idler can be supplied as required. Flywheel with handle is standard, but hand chain operation can be furnished. Available in capacities from $\frac{1}{4}$ through 3 tons.

ACCESSORIES

SAFETY LATCHES



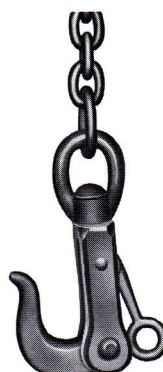
Permit you to convert conventional hooks to safety hooks in minutes with simple tools. Cost less installed than labor required to machine a safety hook. Made of corrosion-resistant metal or stainless steel. Available in 13 stock sizes. Other sizes can be supplied on order by specifying N dimension and throat opening of hook.

Size of Latch	Dimension N (in.)	Throat Opening of Hook (in.)
A	$\frac{9}{16}$ to $\frac{5}{8}$	$1\frac{1}{16}$ to $1\frac{1}{8}$
B	$\frac{3}{4}$ to $1\frac{3}{16}$	$1\frac{1}{4}$
C	$\frac{7}{8}$ to 1	$1\frac{3}{8}$ to $1\frac{1}{2}$
D	$1\frac{1}{8}$ to $1\frac{1}{4}$	$1\frac{3}{4}$ to $1\frac{7}{8}$
E	$1\frac{3}{8}$ to $1\frac{1}{2}$	$2\frac{1}{16}$
F	$1\frac{5}{8}$ to $1\frac{11}{16}$	$2\frac{1}{4}$
G	$1\frac{3}{4}$ to $1\frac{13}{16}$	$2\frac{1}{2}$
H	$1\frac{7}{8}$ to 2	3
J	$2\frac{1}{16}$ to $2\frac{1}{8}$	$3\frac{3}{8}$
K	$2\frac{3}{16}$ to $2\frac{1}{4}$	$3\frac{1}{2}$
L	$2\frac{5}{16}$ to $2\frac{3}{8}$	$3\frac{3}{4}$
M	$2\frac{7}{16}$ to $2\frac{3}{4}$	4
O	3 to $3\frac{1}{4}$	$4\frac{1}{2}$



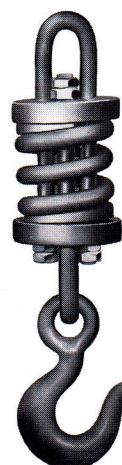
SPECIAL SHEAVES

Sheaves with pockets and plain grooves for applications other than chain hoists. Range of sizes available upon request.



TRIP HOOKS

Designed for applications requiring sudden release of load. Holds securely until trip cord is pulled. Available in sizes from $\frac{1}{2}$ through 3 tons.



SHOCK SPRINGS

Recommended for applications where a chain hoist is used to hold work under a punch, shear, power hammer or similar machine. Designed to be used on the lower hook of the hoist or attached directly to the load chain. Available in capacities from $\frac{1}{2}$ through 6 tons.



MONORAIL HANGERS

Hangers for supporting track are available in many combinations. Details supplied upon request. Describe requirements.

*For more information,
ask for Engineering Data Sheets*

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